

CHECK LIST OF MOSSES OF SINGAPORE

by

Y. C. WEE

*Department of Botany,
University of Singapore*

SUMMARY

A total of 126 species of mosses from 51 genera and 21 families, recorded from Singapore, are contained in this check list.

Fleischer (1900–1922), in his four volumes on the moss flora of Bogor, Indonesia, listed a number of species collected from Singapore. Further records of local mosses are contained in Dixon's (1926) list of mosses from the Malay Peninsula, collected mainly by H. N. Ridley, I. H. Burkill, R. E. Holttum, and others from the Singapore Botanic Gardens. A list of the mosses collected from the Botanic Gardens itself was compiled by Holttum (1926). Further work was not seen until Johnson (1964) published her account of the Malaysian Leucobryaceae and much later, the Fissidentaceae (Johnson, 1973).

Dixon's (1926) list is by far the most comprehensive, but it is very much outdated. The present paper is an attempt at updating the list of mosses recorded from Singapore. Most of the species are from the above mentioned papers. Those marked with an asterisk (*) are from the records of the Bryophyte Herbarium maintained by the Department of Botany, University of Singapore, as well as from collections made by myself during the last two years. A total of 126 species from 51 genera and 21 families are included. The nomenclature and authorities cited are in accordance with Wijk *et al.* (1959–1969). The most appropriate name is given for each species, while any other name under which it has been reported is added in parenthesis.

FISSIDENTACEAE

Fissidens Hedw.

F. ceylonensis Doz. et Molk.

F. crassinervis Lac.

F. mittenii Par.

F. mittenii Par. var. *javensis* Fleisch.

F. sylvaticus Griff. (*F. zippelianus* Doz. et Molk.)

DITRICHACEAE

Garckea C. Muell.

G. comosa (Doz. et Molk.) Wijk et Marg. (*G. phascoides* C. Muell.)

DICRANACEAE

Campylopus Brid.

C. serratus Lac.

Dicranoloma (Ren.) Ren.

D. braunii (C. Muell.) Par.

Microdus Schimp.

M. miquelianus (Mont.) Besch.

LEUCOBRYACEAE

Arthrocormus Doz. et Molk.

**A. schimperi* (Doz. et Molk.) Doz. et Molk.

Exodictyon Card.

**E. blumii* (C. Muell.) Fleisch.

Leucobryum Hampe.

L. aduncum Doz. et Molk.

L. javense (Brid.) Mitt.

L. sanctum (Brid.) Hamp.

L. scalare C. Muell. ex Fleisch.

Leucophanes Besch.

L. albescens C. Muell.

L. candidum (Schwaegr.) Lindb. (*L. aciculare* C. Muell.)

L. candidum (Schwaegr.) Lindb. var. *densifolium* (Mitt.) Dix.
(*L. densifolium* Mitt.)

L. octoblepharioides Brid.

CALYMPERACEAE

Calymperes Sw.

C. bescherellei Fleisch.

C. delessertii Besch.

C. dozyanum Mitt.

C. hampei Doz. et Molk

C. longifolium Mitt.

C. nicobarense Hamp.

**C. nietneri* C. Muell.

C. porrectum Mitt. (*Calymperes salakense* Besch.)

C. punctulatum Hamp.

C. recurvifolium Besch.

C. serratum A. Braun ex C. Muell.

C. tahitense (Sull.) Mitt. (*Calymperes orientale* Mitt. ex Besch.)

C. tenerum C. Muell.

**C. thwaitesii* Besch. (*C. fordii* Besch.)

Calymperopsis (C. Muell.) Fleisch.

C. tjibodensis (Fleisch.) Fleisch. (*Syrrhopodon tjibodensis* Fleisch.)

Syrrhopodon Swaegr.

S. albo-vaginatus Swaegr.

S. ciliatus (Hook.) Swaegr.

S. confertus Lac.

S. croceus Mitt. (*Calymperidium croceum* (Mitt.) Fleisch.)

**S. gardneri* (Hook.) Swaegr.

S. griffithii Mitt.

S. horridulus Fleisch.

S. involutus Swaegr.

S. muelleri (Doz. et Molk.) Lac. (*Calymperidium muelleri* Doz. et Molk.)

S. revolutus Doz. et Molk.

S. ridleyi Broth. ex Dix.

S. rufescens Hook. et Grev.

S. spiculosus Hook. et Grev.

S. trachyphyllus Mont.

Thyridium Mitt.

T. fasciculatum (Hook. et Grev.) Mitt. (*Calymperes fasciculatum* (Hook. et Grev.) Mitt., *Syrrhopodon fasciculatus* Hook. et Grev.)

T. flavum (C. Muell.) Fleisch. (*Syrrhopodon flavus* C. Muell.)

T. manii Fleisch. (Syrrhopodon manii C. Muell.)

T. repens (Harv.) Mitt. (Syrrhopodon repens Harv.)

T. undulatulum (Broth. et Geh.) Fleisch. (Syrrhopodon undulatulus Broth. et Geh.)

T. undulatum (Doz. et Molk.) Fleisch. (Syrrhopodon undulatus (Doz. et Molk.) Lindb.)

T. wallisii (C. Muell.) Jaeg. (Syrrhopodon wallisii C. Muell.)

POTTIACEAE

Hydrogonium (C. Muell.) Jaeg.

H. arcuatum (Griff.) Wijk et Marg. (Barbula comosa Doz. et Molk.)

H. consanguineum (Thwait. et Mitt.) Hilp. (Barbula consanguinea (Thwait. et Mitt.) Jaeg.)

Hymenostomum R. Brown

H. malayense Fleisch.

Hyophila Bridg.

H. involuta (Hook.) Jaeg. (*H. commutata* Broth., *H. dozy-molkenboeri* Fleisch., *H. micholitzii* Both.)

H. javanica (Nees et Blum.) Brid.

Semibarbula Herz. ex Hilp.

S. orientalis (Web.) Wijk. et Marg. (*Barbula indica* (Hook.) Spreng., *Trichostomum orientale* Web.)

SPLACHANCEAE

Gymnostomiella Fleisch.

G. vernicosa (Hook.) Fleisch.

Splachnobryum C. Muell.

S. oorschotii (Lac.) C. Muell.

BRYACEAE

Bryum Hedw.

B. coronatum Schwaegr.

**B. junghuhnianum* Hamp. ex Doz. et Molk.

MNIACEAE

Mnium Hedw.

**M. succulentum* Mitt.

RHIZOGONIACEAE

Rhizogonium Brid.

R. latifolium Bosch et Lac.

R. spiniforme (Hedw.) Bruch

HYPNODENDRACEAE

Hypnodendron (C. Muell.) Lindb.

H. arborescens (Mitt.) Lindb.

ORTHOTRICHACEAE

Desmotheca Lindb.

D. apiculata (Doz. et Molk.) Lindb.

Groutiella Steere

G. goniorrhyncha (Doz. et Molk.) Wijk et Marg. (*Macromitrium goniorrhynchum* (Doz. et Molk.) Mitt.)

Macromitrium Brid.

M. incurvifolium (Hook. et Grev.) Schwaegr.

MYURIACEAE

Myurium Schimp.

M. rufescens (Reinw. et Hornsch.) Fleisch.

Piloecium (C. Muell.) Broth.

P. pseudorufescens (Hamp.) C. Muell.

NECKERACEAE

Neckeropsis Reichdt.

N. gracilentia (Bosch et Lac.) Fleisch.

Pinnatella Fleisch.

P. kuehliana (Bosch et Lac.) Fleisch.

P. microptera Fleisch.

P. mucronata (Bosch et Lac.) Fleisch.

HOOKERIACEAE

Callicostella (C. Muell.) Mitt.

C. beccariana (Hamp.) Jaeg.

C. papillata (Mont.) Mitt.

C. prabaktiana (C. Muell.) Bosch et Lac.

HYPOPTERYGIACEAE

Cyathophorella (Broth.) Fleisch.

**C. tenera* (Bosch et Lac.) Fleisch.

Lopidium Hook. f. et Wils.

L. struthiopteris (Brid.) Fleisch. (*Hypopterygium javanicum* (Hamp.) Jaeg.)

THUIDIACEAE

Pelekium Mitt.

P. bifarium (Bosch. et Lac.) Fleisch. (*Thuidium bifarium* Bosch. et Lac.)

P. velatum Mitt.

PLAGIOTHECIACEAE

Plagiothecium B.S.G.

**P. neckeroideum* B.S.G.

SEMATOPHYLLACEAE

Acanthorrhynchium Fleisch.

A. papillatum (Harv.) Fleisch. (*Taxithelium papillatum* (Harv.) Broth.)

Acroporium Mitt.

A. asperifolium (Thwait. et Mitt.) Dix.

A. convolutum (Bosch. et Lac.) Fleisch.

**A. rufum* (Reinw. et Hornsch.) Fleisch. (*A. braunii* (C. Muell.) Fleisch.)

A. secundum (Reinw. et Hornsch.) Fleisch.

Glossadelphus Fleisch.

G. zollingeri (C. Muell.) Fleisch. (*Ectropothecium zollingeri* (C. Muell.) Jaeg.)

Meiothecium Mitt.*M. microcarpum* (Hook.) Mitt.*M. microcarpum* (Hook.) Mitt. var. *lineolatum* (Dub.) Fleisch.*M. jagorii* (C. Muell.) Broth.*Rhaphidostichum* Fleisch.*R. bruchii* (Doz. et Molk.) Fleisch.*R. leptocarpum* Fleisch.*R. luxurians* (Doz. et Molk.) Fleisch. (*Trichosteleum luxurians* (Doz. et Molk.) Broth.)*Sematophyllum* Mitt.*S. microcladiellum* Fleisch. (*Rhaphidostegium microcladum* (Doz. et Molk.) Broth.)*S. saproxylophilum* (C. Muell.) Fleisch. (*Rhaphidostegium saproxylophilum* (C. Muell.) Jaeg.)*Taxithelium* Spruc. ex Mitt.*T. capillipes* (Lac.) Broth.*T. instratum* (Brid.) Broth.*T. isocladum* (Bosch. et Lac.) Ren. et Card.*T. nepalense* (Schwaegr.) Broth.**T. vernieri* (Dub.) Bosch. (*T. lindbergii* (Jaeg.) Ren. et Card.)*Trichosteleum* Mitt.*T. boschii* (Doz. et Molk.) Jaeg. (*T. brachypelma* (C. Muell.) Par.)*T. monostictum* (Thwait. et Mitt.) Broth. var. *laevius* Dix.*T. singaporense* Fleisch.*Trismegistia* (C. Muell.) C. Muel.*T. lancifolia* (Harv.) Broth.*T. rigida* (Mitt.) Broth.*Warburgiella* C. Muell.*W. leptocarpa* (Schwaegr.) Fleisch. (*Trichosteleum leptocarpon* (Schwaegr.) Fleisch.)

HYPNACEAE

Ctenidiaedelphus Fleisch.

C. plumularia (C. Muell.) Fleisch. (*Taxithelium plumularia* (C. Muell.) Broth.)

Ectropothecium Mitt.

E. buitenzorgii (Bel.) Mitt.

E. incubans (Reinw. et Hornsch.) Jaeg.

**E. intorquatum* (Doz. et Molk.) Jaeg.

E. monumentorum (Dub.) Jaeg.

E. moritzii Jaeg.

E. singaporense Dix.

Isopterygium Mitt.

I. albescens (Hook.) Jaeg.

I. minutirameum (C. Muell.) Jaeg.

I. subalbescens Broth.

Taxiphyllum Fleisch.

**T. taxirameum* (Mitt.) Fleisch.

Vesicularia (C. Muell.) C. Muell.

V. dubyana (C. Muell.) Broth.

V. kurzii (Lac.) Broth.

V. miquelii (Lac.) Fleisch. (*Plagiothecium miquelii* (Lac.) Broth.)

V. montagnei (Bel.) Broth.

V. reticulata (Doz. et Molk.) Broth.

DIPHYSCIACEAE

Diphyscium Mohr

D. rupestre Doz. et Molk.

REFERENCES

- Dixon, H.N. 1926. A list of the mosses of the Malay Peninsula. *Gdns' Bull. Straits Settl.* 4, 1-46.
- Fleischer, M. 1900-1922. *Die musci der flora von Buitenzorg*. I-IV. Leiden.
- Holttum, R.E. 1926. A list of mosses collected in the Botanic Gardens, Singapore. *Gdns' Bull. Straits Settl.* 4, 88-91.
- Johnson, A. 1964. An account of the Malaysian Leucobryaceae ('Lumut puteh'). *Gdns' Bul., Singapore*, 20, 315-360.
- Johnson, A. 1973. The Fissidentaceae (split-teeth mosses) of Singapore with notes on their Malaysian distribution. *Nanyang Univ. J.* 7, 64-77.
- Wijk, R. van der, Margadant, W.D. & Florschütz, P.A. 1959-1969. *Index Muscorum*. I-V. Utrecht.